

INTERFACE EPU 221

Technical sheet no. 23

Editing September 2022

TYPE OF PRODUCT :

FLEXIBLE EPOXY-URETHANE INTERFACE

PROPERTIES :



Information
Products

The EPU 221 interface is a flexible epoxy-urethane system with very fast drying and great ease of covering, applicable in a thin film 20 to 30µm sec.

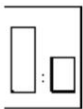
The EPU 221 interface:

- Provides a very fine film (same film fineness as a lacquer) and can be covered directly without prior sanding with the lacquer two hours after its application at 20°C.
- Ensures, on epoxy and polyurethane primers, excellent adhesion of finishing lacquers
- The quality of the fineness of the film, makes it possible to visualize the defects before the application of finishing lacquers.
- Ensures excellent quality of primers and adhesion of finishing PU lacquers
- Does not contain anti-corrosion fillers for metals.

The EPU 221 interface is applied:

- In cycle recovery on epoxy and polyurethane primers and undercoats.
 - Directly on Gelcoats as a thin film primer for composite masts and spars, and racing boats (weight gain).
 - On old lacquers (two-component) in renovation
 - In quick touch-ups or under general coats before the lacquer.
 - As a primer for the DECKTHANE UVR system on epoxy primers, epoxy or polyester gelcoats.
- The EPU 221 interface is delivered in white, it can be easily colored with the BLACK dye MP934 to obtain the base coats adapted to the finishing colours.

COMPONENTS:



Hardeners

Thinners

EPU 221 Hardener

PU N° 2 and PU N°4 thinners

DILUTIONS:

- ROLLERS from 10% to 15% (As a primer for the system DECKTHANE UVR)
- PNEUMATIC GUN from 25% to 40%

SPECIFICATIONS :



Standards and
Qualifications

MAP YACHTING *Paint Systems* SPEC

For the latest missing updates, please check with us at sales@map-yachting.com

The information contained in this edition is based on our current knowledge and experience. Given the many factors that can affect the transformation and application of our products, this information does not in any way release any user from his obligations to carry out his own checks and tests. Nor do they constitute a guarantee of certain characteristics of the products or of their adaptation to a specific need. Any description, photo, data etc. Is mentioned for information only. The most recent version cancels and replaces all previous versions. The most recent document is available on our website www.map-yachting.com, or directly from your distributor. The recipient of our products is required to ensure that all industrial property rights and all laws and regulations in force are respected.

Surface Preparation



All surfaces to be covered must be free of dirt, pollution due to grease, water vapour, (refer to the dew point table) dust or mould. In order to ensure a perfect finish, and to obtain an excellent quality of surface tension, the interfaces or undercoats must be perfectly smooth, and free of drips or orange peel and sanded with very high quality abrasives to the FEPA standard.

The EPU 221 interface can also be used on primers, EP 211, IM409, Sprayable Filler 500, Aerofiller 525.01, EP 215 HB, EP 215 HB+, PU225-PU228 systems. The EPU 221 interface can receive PU77, PU99, PU320-PU380, F16 finishes and DECKTHANE UVR soft non-slip.

Manual



Mixing ratio

Volume : 2 Base / 1 Hardener

Weight: **100 (gr) Base** **42 (gr) Hardener**

Allow products to acclimate to ambient site temperature before use. Base should be mixed thoroughly for at least 5 minutes using a clean disperser mounted on an explosion-proof stirrer. Then add the part of hardener by pouring it slowly and continuing to mix until a liquid with a smooth and homogeneous unctuous appearance is obtained. Since the two components are of different viscosity, the edges of the mixing container should be carefully scraped with a spatula. Mixing containers should have flat bottoms and perfectly smooth edges.



Duration dying

20 minutes



Viscosity initial of application (at 23°C)

14s to 15s AFNOR Cup n°4



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Shelf life of the mixture at 20°C

8 hours



Remark

Film weight for 25µm dry 0.51g/m²



Dry film thickness

20µm –30µm

Applications & Recommendations



Conditions

Hardeners : **EPU 221 HARDENER** **EPU 221 HARDENER**

Temperature: 15°C– 20°C 20 - 25°C

Hygrometry : 30 – 70% 40 - 75%



Note

The quality of application of all coatings will be influenced by the spray equipment chosen and by the temperature, humidity and airflow of the paint application area. When first applying the product, it is recommended that test panels be prepared to identify the best equipment settings to use to optimize the performance and appearance of the coating. The EPU 221 interface can be applied in conditions outside the indicated limits. Care should be taken to ensure a satisfactory result. Please contact your MAP YACHTING Paint Systems technician to determine proper application techniques and choice of thinners when environmental conditions are outside the recommended range.



Remark

The quality of the coating may be degraded by humidity during its crosslinking phase.

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Materiel

Pressure pot
 Pistol : AZ1/IWATA WS200SP / WS200FT / W200G2P
 Nozzle + Needle: 0.8mm to 1.2mm
 Paint flow: 170 - 280 ml/min
 Air cap: G2P / WS-200SP-01 / WS-200FT-01 / WS-200FT-02
 Gun pressure: 2.5 – 3.0 Bars
 Pressure Product: 1 Bar
 Gravity spray gun
 Spray gun: AZ3 /IWATA WS400 / W400 / W400WB / W400 BELLARIA
 Nozzle+ Needle: 1.3 mm to 1.6mm
 Paint flow: 140 - 250 ml/min
 Air cap: LV2 / BA4-1 / WB1 / WBX
 Gun pressure : 1.8 – 2.5 Bars
 Roller or Brush
 Laqueur



Name of lying down




Apply in 2 coats a wet film from 60 μ m to 90 μ m. The layers must be closed and homogeneous.



Cleaning the material

Do the first cleaning with cleaning thinner (noble solvent without water and not recycled) and finish cleaning with the application solvent of the MAP YACHTING Paint Systems system.

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Physical properties		USE LIMIT TEMPERATURE :	+100 °C
	Time to Drying (at 23°C – 40 to 60% RH)	Dust free: 20 minutes Dry to touch: 2 hours	
	Recovery (at 23°C – 40 to 60% RH)	By itself without sanding (for 25µm dry): Minimum: 1 hour Maximum: 72 hours	
	YIELD THEORETICALLY	16 m² / l for 20 µm dry (without loss, undiluted)	
	Dry extract in Volume you Mixed	32.5 +/- 3%	
	Density of Mix at 20°C	1,5 +/-0,05%	
	Compounds organic Volatiles	Base: 560.00 g/l Hardener: 600.00 g/l	

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ASPECT

(at 60°)

Deep satin



Colors

White – can be tinted with MP934 Black Dye



Flash point

Base and Hardener: PE < 23 °C



Storage

Store the product in a dry place and at a temperature between + 10°C and + 25°C according to the specifications of MAP YACHTING Paint Systems. Store in original unopened containers. Storage temperature may vary depending on OEM specification requirements. Refer to container label for specific information on storage time.

Lifetime

+10°C to 25°C

The information is given for closed containers in the original packaging, i.e. 24 months according to the commercial specifications of MAP YACHTING Paint Systems for the base of the EPU 221 interface and 24 months for the hardener. Shelf life may vary due to OEM specification requirements. Refer to container label for specific shelf life information.

Safety instructions

Comply with all local safety, disposal and transportation regulations. Carefully check the Safety Data Sheet (SDS) and label of each product before using it.

Safety Data Sheets are available on request.

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Exhaustive and is based on the current state of our knowledge and on the laws in force: anyone using the product for purposes other than those specifically recommended in the data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended use does so at its own risk. It is always the responsibility of the user to take all necessary measures to meet the requirements set by local rules and legislation. Always read the Material Data Sheet and Technical Data Sheet for that product, if available. All advice we give or statements we make about the product (whether in this data sheet or elsewhere) are correct to the best of our knowledge, but we have no control over the quality or condition of the substrate or on the many factors affecting the use and application of the product. Therefore, unless we agree otherwise in writing, we accept no liability whatsoever for the performance of the product or for any loss or damage arising from the use of the product. All products supplied and technical advice given are subject to our terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to change from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check that this data sheet is up to date before using the product. **Brand names mentioned in this data sheet are registered trademarks or licensed to:**